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Ile Gly Ser Gly Ile Phe Val Thr Pro Thr Gly Val Leu Lys Glu Ala  
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Ser Ile Val Gly Ala Leu Cys Tyr Ala Glu Leu Gly Thr Thr Ile Ser  
100 105 110  
Lys Ser Gly Gly Asp Tyr Ala Tyr Met Leu Glu Val Tyr Gly Ser Leu  
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Pro Ala Phe Leu Lys Leu Trp Ile Glu Leu Leu Ile Ile Arg Pro Ser  
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Ser Gln Tyr Ile Val Ala Leu Val Phe Ala Thr Tyr Leu Leu Lys Pro  
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165 170 175  
Cys Leu Cys Val Leu Leu Leu Thr Ala Val Asn Cys Tyr Ser Val Lys  
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Ala Ala Thr Arg Val Gln Asp Ala Phe Ala Ala Ala Lys Leu Leu Ala  
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Gly Gln Gly Asp Ala Ser Asn Leu His Gln Lys Leu Ser Phe Glu Gly  
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 Thr Asn Leu Asp Val Gly Asn Ile Val Leu Ala Leu Tyr Ser Gly Leu  
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 Gly Asn Tyr His Leu Gly Val Met Ser Trp Ile Ile Pro Val Phe Val  
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 Arg Leu Phe Phe Val Gly Ser Arg Glu Gly His Leu Pro Ser Ile Leu  
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 Asp Thr Glu Val Asp Met Lys Glu Val Glu Leu Asn Glu Leu Glu Pro  
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 gag aag cag ccg atg aac gcg gcg tct ggg gcg gcc atg tcc ctg gcg 214  
 Glu Lys Gln Pro Met Asn Ala Ala Ser Gly Ala Ala Met Ser Leu Ala  
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 Gly Ala Glu Lys Asn Gly Leu Val Lys Ile Lys Val Ala Glu Asp Glu  
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 Phe Gln Gly His Gly Ala Gly Asn Leu Ala Gly Leu Lys Gly Arg Leu  
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gat tac ctg agc tct ctg aag gtg aag ggc ctt gtg ctg ggt cca att	598
Asp Tyr Leu Ser Ser Leu Lys Val Lys Gly Leu Val Leu Gly Pro Ile	
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His Lys Asn Gln Lys Asp Asp Val Ala Gln Thr Asp Leu Leu Gln Ile	
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Asp Pro Asn Phe Gly Ser Lys Glu Asp Phe Asp Ser Leu Leu Gln Ser	
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gct aaa aaa aag agc atc cgt gtc att ctg gac ctt act ccc aac tac	742
Ala Lys Lys Lys Ser Ile Arg Val Ile Leu Asp Leu Thr Pro Asn Tyr	
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Lys Val Lys Asp Ala Leu Glu Phe Trp Leu Gln Ala Gly Val Asp Gly	
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Phe Gln Val Arg Asp Ile Glu Asn Leu Lys Asp Ala Ser Ser Phe Leu	
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gct gag tgg caa aat atc acc aag ggc ttc agt gaa gac agg ctc ttg	934
Ala Glu Trp Gln Asn Ile Thr Lys Gly Phe Ser Glu Asp Arg Leu Leu	
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att gcg ggg act aac tcc tcc gac ctt cag cag atc ctg agc cta ctc	982
Ile Ala Gly Thr Asn Ser Ser Asp Leu Gln Gln Ile Leu Ser Leu Leu	
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gaa tcc aac aaa gac ttg ctg ttg act agc tca tac ctg tct gat tct	1030
Glu Ser Asn Lys Asp Leu Leu Leu Thr Ser Ser Tyr Leu Ser Asp Ser	
295 300 305	
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Gly Ser Thr Gly Glu His Thr Lys Ser Leu Val Thr Gln Tyr Leu Asn	
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360 365 370	

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 Tyr Ile Arg His Trp Asp Gln Asn Glu Arg Phe Leu Val Val Leu Asn  
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Tyr Leu Asn Ala Thr Gly Asn Arg Trp Cys Ser Trp Ser Leu Ser Gln  
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Asp Gly Ala Ala Ala Gly Glu Lys Asn Gly Leu Val Lys Ile Lys Val	
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gcc gaa gac gag gcg gaa gcc ggg gtc aag ttc aca ggc tta tcc aag	196
Ala Glu Asp Glu Ala Glu Ala Gly Val Lys Phe Thr Gly Leu Ser Lys	
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Glu Glu Leu Leu Lys Val Ala Gly Ser Pro Gly Trp Val Arg Thr Arg	
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Trp Ala Leu Leu Leu Leu Phe Trp Leu Gly Trp Leu Gly Met Leu Ala	
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Gly Ala Val Val Ile Ile Val Arg Ala Pro Arg Cys Arg Glu Leu Pro	
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gta cag aga tgg tgg cac aag ggc gcc ctc tac cgc atc ggc gac ctt	388
Val Gln Arg Trp Trp His Lys Gly Ala Leu Tyr Arg Ile Gly Asp Leu	
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cag gcc ttc gta ggc ccg gaa gcg aga ggc ata gct ggt ctg aag aac	436
Gln Ala Phe Val Gly Pro Glu Ala Arg Gly Ile Ala Gly Leu Lys Asn	
125 130 135	
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His Leu Glu Tyr Leu Ser Thr Leu Lys Val Lys Gly Leu Val Leu Gly	
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Gln Ile Asp Pro Asp Leu Gly Ser Gln Glu Asp Phe Lys Asp Leu Leu	
175 180 185	
caa agt gcc aag aaa aag agc att cac atc att ttg gac ctc act ccc	628
Gln Ser Ala Lys Lys Lys Ser Ile His Ile Ile Leu Asp Leu Thr Pro	
190 195 200	

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Asn Tyr Lys Gly Gln Asn Ala Trp Phe Leu Pro Pro Gln Ala Asp Ile	
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gta gcc acc aaa atg aag gag gct ctg agt tct tgg ttg cag gac ggt	724
Val Ala Thr Lys Met Lys Glu Ala Leu Ser Ser Trp Leu Gln Asp Gly	
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agg ctt ttg att gca ggg acc gcg tcc tct gac ctg caa caa att gtc	868
Arg Leu Leu Ile Ala Gly Thr Ala Ser Ser Asp Leu Gln Gln Ile Val	
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aac ata ctt gaa tcc acc agc gat ctg ctg ctg acc agc tca tac ctg	916
Asn Ile Leu Glu Ser Thr Ser Asp Leu Leu Leu Thr Ser Ser Tyr Leu	
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tca cag ccc gtt ttc act ggg gag cat gca gaa ctc cta gtg att aag	964
Ser Gln Pro Val Phe Thr Gly Glu His Ala Glu Leu Leu Val Ile Lys	
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Tyr Leu Asn Ala Thr Gly Ser Arg Trp Cys Ser Trp Ser Val Ser Gln	
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Gln Leu Leu Leu Phe Thr Leu Pro Gly Thr Pro Val Phe Ser Tyr Gly	
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Ala Pro Phe Met Leu Trp Asn Glu Ser Ser Asn Ser Gln Thr Ser Ser	
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415 420 425	

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 Val Leu Asn Phe Gln Asp Val Gly Leu Ser Ala Arg Val Gly Ala Ser  
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aac ctc cct gct ggc ata agc ctg cca gcc agt gct aac ctt ttg ctt 1492  
 Asn Leu Pro Ala Gly Ile Ser Leu Pro Ala Ser Ala Asn Leu Leu Leu  
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 Ser Thr Asp Ser Thr Arg Leu Ser Arg Glu Glu Gly Thr Ser Leu Ser  
 495 500 505

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 Pro Phe Val Ala  
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 50 55 60

Val Ala Gly Ser Pro Gly Trp Val Arg Thr Arg Trp Ala Leu Leu Leu  
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Ile	Val	Arg	Ala	Pro	Arg	Cys	Arg	Glu	Leu	Pro	Val	Gln	Arg	Trp	Trp	
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Ser	Thr	Leu	Lys	Val	Lys	Gly	Leu	Val	Leu	Gly	Pro	Ile	His	Lys	Asn	
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Leu	Gly	Ser	Gln	Glu	Asp	Phe	Lys	Asp	Leu	Leu	Gln	Ser	Ala	Lys	Lys	
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Lys	Glu	Ala	Leu	Ser	Ser	Trp	Leu	Gln	Asp	Gly	Val	Asp	Gly	Phe	Gln	
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Val	Arg	Asp	Val	Gly	Lys	Leu	Ala	Asn	Ala	Ser	Leu	Tyr	Leu	Ala	Glu	
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Trp	Gln	Asn	Ile	Thr	Lys	Asn	Phe	Ser	Glu	Asp	Arg	Leu	Leu	Ile	Ala	
		260						265						270		
Gly	Thr	Ala	Ser	Ser	Asp	Leu	Gln	Gln	Ile	Val	Asn	Ile	Leu	Glu	Ser	
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Thr	Ser	Asp	Leu	Leu	Leu	Thr	Ser	Ser	Tyr	Leu	Ser	Gln	Pro	Val	Phe	
	290					295					300					
Thr	Gly	Glu	His	Ala	Glu	Leu	Leu	Val	Ile	Lys	Tyr	Leu	Asn	Ala	Thr	
305					310					315					320	
Gly	Ser	Arg	Trp	Cys	Ser	Trp	Ser	Val	Ser	Gln	Ala	Gly	Leu	Leu	Thr	
			325						330					335		
Ser	Phe	Ile	Pro	Ala	Gln	Phe	Leu	Arg	Leu	Tyr	Gln	Leu	Leu	Leu	Phe	
		340						345				350				
Thr	Leu	Pro	Gly	Thr	Pro	Val	Phe	Ser	Tyr	Gly	Asp	Glu	Leu	Gly	Leu	
	355						360					365				
Gln	Ala	Val	Ala	Leu	Pro	Gly	Gln	Pro	Met	Glu	Ala	Pro	Phe	Met	Leu	
	370					375					380					

Trp Asn Glu Ser Ser Asn Ser Gln Thr Ser Ser Pro Val Ser Leu Asn  
 385 390 395 400  
 Met Thr Val Lys Gly Gln Asn Glu Asp Pro Gly Ser Leu Leu Thr Gln  
 405 410 415  
 Phe Arg Arg Leu Ser Asp Leu Arg Gly Lys Glu Arg Ser Leu Leu His  
 420 425 430  
 Gly Asp Phe Asp Ala Leu Ser Ser Ser Gly Leu Phe Ser Tyr Val  
 435 440 445  
 Arg His Trp Asp Gln Asn Glu Arg Tyr Leu Val Val Leu Asn Phe Gln  
 450 455 460  
 Asp Val Gly Leu Ser Ala Arg Val Gly Ala Ser Asn Leu Pro Ala Gly  
 465 470 475 480  
 Ile Ser Leu Pro Ala Ser Ala Asn Leu Leu Leu Ser Thr Asp Ser Thr  
 485 490 495  
 Arg Leu Ser Arg Glu Glu Gly Thr Ser Leu Ser Leu Glu Asn Leu Ser  
 500 505 510  
 Leu Asn Pro Tyr Glu Gly Leu Leu Leu Gln Phe Pro Phe Val Ala  
 515 520 525

<210> 9  
 <211> 22  
 <212> DNA  
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<220>  
 <223> Description of Artificial Sequence:Artificially  
 synthesized primer sequence

<220>  
 <221> primer\_bind  
 <222> (1)..(22)

<400> 9  
 cgaagtggac atgaaagatg tg

22

<210> 10  
 <211> 22  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:Artificially  
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<220>  
 <221> primer\_bind  
 <222> (1)..(22)

<400> 10  
aaactaggcc cttcaccttc ag 22

<210> 11  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:Artificially  
synthesized primer sequence

<220>  
<221> primer\_bind  
<222> (1)..(24)

<400> 11  
actgctgctg ctcttctggc tcgg 24

<210> 12  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:Artificially  
synthesized primer sequence

<220>  
<221> primer\_bind  
<222> (1)..(24)

<400> 12  
gtggatgggt tccaggttcg ggac 24

<210> 13  
<211> 24  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence:Artificially  
synthesized primer sequence

<220>  
<221> primer\_bind  
<222> (1)..(24)

<400> 13  
tgctgtggga tgagtccagc ttcc 24

<210> 14  
<211> 24

<212> DNA  
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 <220>  
 <223> Description of Artificial Sequence:Artificially  
       synthesized primer sequence  
  
 <220>  
 <221> primer\_bind  
 <222> (1)..(24)  
  
 <400> 14  
 gcaggaggtc agccttggct ggca 24  
  
  
 <210> 15  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence  
  
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 <223> Description of Artificial Sequence:Artificially  
       synthesized primer sequence  
  
 <220>  
 <221> primer\_bind  
 <222> (1)..(24)  
  
 <400> 15  
 cttgcctgag acaaactcca gctg 24  
  
  
 <210> 16  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence  
  
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       synthesized primer sequence  
  
 <220>  
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 <222> (1)..(24)  
  
 <400> 16  
 actgtcaaaa tcttccttgg agcc 24  
  
  
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       synthesized primer sequence



<220>  
 <221> primer\_bind  
 <222> (1)..(24)  
  
 <400> 17  
 ttctcgggct ctaactcatt cagc 24

<210> 18  
 <211> 23  
 <212> DNA  
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 <223> Description of Artificial Sequence:Artificially  
       synthesized primer sequence  
  
 <220>  
 <221> primer\_bind  
 <222> (1)..(23)  
  
 <400> 18  
 tgctgctgct cacggccgtg aac 23

<210> 19  
 <211> 17  
 <212> DNA  
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 <220>  
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       synthesized primer sequence  
  
 <220>  
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 <222> (1)..(17)  
  
 <400> 19  
 tggcggcctt cacgctg 17

<210> 20  
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 <220>  
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       synthesized primer sequence  
  
 <220>  
 <221> primer\_bind  
 <222> (1)..(25)  
  
 <400> 20  
 atctagattg gacacatcac ccttc 25

<210> 21  
<211> 22  
<212> DNA  
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<220>  
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synthesized primer sequence

<220>  
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<222> (1)..(22)

<400> 21  
gtggtgaagt aggccaggtt gg

22

<210> 22  
<211> 21  
<212> DNA  
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<220>  
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synthesized primer sequence

<220>  
<221> primer\_bind  
<222> (1)..(21)

<400> 22  
gtgggtccc gggaaggcca c

21

<210> 23  
<211> 22  
<212> DNA  
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<220>  
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synthesized primer sequence

<220>  
<221> primer\_bind  
<222> (1)..(22)

<400> 23  
cttgtttttc caccagaccc cg

22

<210> 24  
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<220>

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synthesized primer sequence

<220>

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<222> (1)..(22)

<400> 24

tgagggatga gattcgtacc ag

22

<210> 25

<211> 23

<212> DNA

<213> Artificial Sequence

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synthesized primer sequence

<220>

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<222> (1)..(23)

<400> 25

cctgggagga atcaccacc ttg

23

<210> 26

<211> 1524

<212> RNA

<213> Homo sapiens

<220>

<221> CDS

<222> (1)..(1524)

<400> 26

aug gcg ggu gcg ggc ccg aag cgg cgc gcg cua gcg gcg ccg gcg gcc	48
Met Ala Gly Ala Gly Pro Lys Arg Arg Ala Leu Ala Ala Pro Ala Ala	
1 5 10 15	

gag gag aag gaa gag gcg cgg gag aag aug cug gcc gcc aag agc gcg	96
Glu Glu Lys Glu Glu Ala Arg Glu Lys Met Leu Ala Ala Lys Ser Ala	
20 25 30	

gac ggc ucg gcg ccg gca ggc gag ggc gag ggc gug acc cug cag cgg	144
Asp Gly Ser Ala Pro Ala Gly Glu Gly Glu Gly Val Thr Leu Gln Arg	
35 40 45	

aac auc acg cug cuc aac ggc gug gcc auc auc gug ggg acc auu auc	192
Asn Ile Thr Leu Leu Asn Gly Val Ala Ile Ile Val Gly Thr Ile Ile	
50 55 60	

ggc ucg ggc auc uuc gug acg ccc acg ggc gug cuc aag gag gca ggc	240
Gly Ser Gly Ile Phe Val Thr Pro Thr Gly Val Leu Lys Glu Ala Gly	
65 70 75 80	

ucg ccg ggg cug gcg cug gug gug ugg gcc gcg ugc ggc guc uuc ucc	288
Ser Pro Gly Leu Ala Leu Val Val Trp Ala Ala Cys Gly Val Phe Ser	
85 90 95	
auc gug ggc gcg cuc ugc uac gcg gag cuc ggc acc acc auc ucc aaa	336
Ile Val Gly Ala Leu Cys Tyr Ala Glu Leu Gly Thr Thr Ile Ser Lys	
100 105 110	
ucg ggc ggc gac uac gcc uac aug cug gag guc uac ggc ugc cug ccc	384
Ser Gly Gly Asp Tyr Ala Tyr Met Leu Glu Val Tyr Gly Ser Leu Pro	
115 120 125	
gcc uuc cuc aag cuc ugg auc gag cug cuc auc auc cgg ccu uca ugc	432
Ala Phe Leu Lys Leu Trp Ile Glu Leu Leu Ile Ile Arg Pro Ser Ser	
130 135 140	
cag uac auc gug gcc cug guc uuc gcc acc uac cug cuc aag ccg cuc	480
Gln Tyr Ile Val Ala Leu Val Phe Ala Thr Tyr Leu Leu Lys Pro Leu	
145 150 155 160	
uuc ccc acc ugc ccg gug ccc gag gag gca gcc aag cuc gug gcc ugc	528
Phe Pro Thr Cys Pro Val Pro Glu Glu Ala Ala Lys Leu Val Ala Cys	
165 170 175	
cuc ugc gug cug cug cuc acg gcc gug aac ugc uac agc gug aag gcc	576
Leu Cys Val Leu Leu Leu Thr Ala Val Asn Cys Tyr Ser Val Lys Ala	
180 185 190	
gcc acc cgg guc cag gau gcc uuu gcc gcc gcc aag cuc cug gcc cug	624
Ala Thr Arg Val Gln Xaa Ala Phe Ala Ala Ala Lys Leu Leu Ala Leu	
195 200 205	
gcc cug auc auc cug cug ggc uuc guc cag auc ggg aag ggu gau gug	672
Ala Leu Ile Ile Leu Leu Gly Phe Val Gln Ile Gly Lys Gly Xaa Val	
210 215 220	
ucc aaU cua gau ccc aac uuc uca uuu gaa ggc acc aaa cug gau gug	720
Ser Asn Leu Xaa Pro Asn Phe Ser Phe Glu Gly Thr Lys Leu Xaa Val	
225 230 235 240	
ggg aac auu gug cug gca uua uac agc ggc cuc uuu gcc uau gga gga	768
Gly Asn Ile Val Leu Ala Leu Tyr Ser Gly Leu Phe Ala Tyr Gly Gly	
245 250 255	
ugg aaU uac uug aaU uuc guc aca gag gaa aug auc aac ccc uac aga	816
Trp Asn Tyr Leu Asn Phe Val Thr Glu Glu Met Ile Asn Pro Tyr Arg	
260 265 270	
aac cug ccc cug gcc auc auc auc ucc cug ccc auc gug acg cug gug	864
Asn Leu Pro Leu Ala Ile Ile Ile Ser Leu Pro Ile Val Thr Leu Val	
275 280 285	
uac gug cug acc aac cug gcc uac uuc acc acc cug ucc acc gag cag	912
Tyr Val Leu Thr Asn Leu Ala Tyr Phe Thr Thr Leu Ser Thr Glu Gln	
290 295 300	
aug cug ugc ucc gag gcc gug gcc gug gac uuc ggg aac uau cac cug	960

Met	Leu	Ser	Ser	Glu	Ala	Val	Ala	Val	Asp	Phe	Gly	Asn	Tyr	His	Leu	
305					310					315					320	
ggc	guc	aug	ucc	ugg	auc	auc	ccc	guc	uuc	gug	ggc	cug	ucc	ugc	uuc	1008
Gly	Val	Met	Ser	Trp	Ile	Ile	Pro	Val	Phe	Val	Gly	Leu	Ser	Cys	Phe	
				325					330					335		
ggc	ucc	guc	aaU	ggg	ucc	cug	uuc	aca	ucc	ucc	agg	cuc	uuc	uuc	gug	1056
Gly	Ser	Val	Asn	Gly	Ser	Leu	Phe	Thr	Ser	Ser	Arg	Leu	Phe	Phe	Val	
			340					345					350			
ggg	ucc	cgg	gaa	ggc	cac	cug	ccc	ucc	auc	cuc	ucc	aug	auc	cac	cca	1104
Gly	Ser	Arg	Glu	Gly	His	Leu	Pro	Ser	Ile	Leu	Ser	Met	Ile	His	Pro	
		355					360					365				
cag	cuc	cuc	acc	ccc	gug	ccg	ucc	cuc	gug	uuc	acg	ugu	gug	aug	acg	1152
Gln	Leu	Leu	Thr	Pro	Val	Pro	Ser	Leu	Val	Phe	Thr	Cys	Val	Met	Thr	
	370					375					380					
cug	cuc	uac	gcc	uuc	ucc	aag	gac	auc	uuc	ucc	guc	auc	aac	uuc	uuc	1200
Leu	Leu	Tyr	Ala	Phe	Ser	Lys	Asp	Ile	Phe	Ser	Val	Ile	Asn	Phe	Phe	
385					390				395						400	
agc	uuc	uuc	aac	ugg	cuc	ugc	gug	gcc	cug	gcc	auc	auc	ggc	aug	auc	1248
Ser	Phe	Phe	Asn	Trp	Leu	Cys	Val	Ala	Leu	Ala	Ile	Ile	Gly	Met	Ile	
			405					410					415			
ugg	cug	cgc	cac	aga	aag	ccu	gag	cuu	gag	cgg	ccc	auc	aag	gug	aac	1296
Trp	Leu	Arg	His	Arg	Lys	Pro	Glu	Leu	Glu	Arg	Pro	Ile	Lys	Val	Asn	
			420				425					430				
cug	gcc	cug	ccu	gug	uuc	uuc	auc	cug	gcc	ugc	cuc	uuc	cug	auc	gcc	1344
Leu	Ala	Leu	Pro	Val	Phe	Phe	Ile	Leu	Ala	Cys	Leu	Phe	Leu	Ile	Ala	
	435						440				445					
guc	ucc	uuc	ugg	aag	aca	ccc	gug	gag	ugu	ggc	auc	ggc	uuc	acc	auc	1392
Val	Ser	Phe	Trp	Lys	Thr	Pro	Val	Glu	Cys	Gly	Ile	Gly	Phe	Thr	Ile	
	450					455				460						
auc	cuc	agc	ggg	cug	ccc	guc	uac	uuc	uuc	ggg	guc	ugg	ugg	aaa	aac	1440
Ile	Leu	Ser	Gly	Leu	Pro	Val	Tyr	Phe	Phe	Gly	Val	Trp	Trp	Lys	Asn	
465					470				475					480		
aag	ccc	aag	ugg	cuc	cuc	cag	ggc	auc	uuc	ucc	acg	acc	guc	cug	ugu	1488
Lys	Pro	Lys	Trp	Leu	Leu	Gln	Gly	Ile	Phe	Ser	Thr	Thr	Val	Leu	Cys	
			485				490						495			
cag	aag	cuc	aug	cag	gug	guc	ccc	cag	gag	aca	uag					1524
Gln	Lys	Leu	Met	Gln	Val	Val	Pro	Gln	Glu	Thr						
		500					505									

<210> 27

<211> 1590

<212> RNA

<213> Homo sapiens

<220>

<221> CDS

<222> (1)..(1590)

<400> 27

aug agc cag gac acc gag gug gau aug aag gag gug gag cug aaU gag	48
Met Ser Gln Asp Thr Glu Val Xaa Met Lys Glu Val Glu Leu Asn Glu	
1 5 10 15	
uua gag ccc gag aag cag ccg aug aac gcg gcg ucu ggg gcg gcc aug	96
Leu Glu Pro Glu Lys Gln Pro Met Asn Ala Ala Ser Gly Ala Ala Met	
20 25 30	
ucc cug gcg gga gcc gag aag aaU ggu cug gug aag auc aag gug gcg	144
Ser Leu Ala Gly Ala Glu Lys Asn Gly Leu Val Lys Ile Lys Val Ala	
35 40 45	
gaa gac gag gcg gag gcg gca gcc gcg gcu aag uuc acg ggc cug ucc	192
Glu Asp Glu Ala Glu Ala Ala Ala Ala Lys Phe Thr Gly Leu Ser	
50 55 60	
aag gag gag cug cug aag gug gca ggc agc ccc ggc ugg gua cgc acc	240
Lys Glu Glu Leu Leu Lys Val Ala Gly Ser Pro Gly Trp Val Arg Thr	
65 70 75 80	
cgc ugg gca cug cug cug cuc uuc ugg cuc ggc ugg cuc ggc aug cuu	288
Arg Trp Ala Leu Leu Leu Leu Phe Trp Leu Gly Trp Leu Gly Met Leu	
85 90 95	
gcu ggu gcc gug guc aua auc gug cga gcg ccg cgu ugu cgc gag cua	336
Ala Gly Ala Val Val Ile Ile Val Arg Ala Pro Arg Cys Arg Glu Leu	
100 105 110	
ccg gcg cag aag ugg ugg cac acg ggc gcc cuc uac cgc auc ggc gac	384
Pro Ala Gln Lys Trp Trp His Thr Gly Ala Leu Tyr Arg Ile Gly Asp	
115 120 125	
cuu cag gcc uuc cag ggc cac ggc gcg ggc aac cug gcg ggu cug aag	432
Leu Gln Ala Phe Gln Gly His Gly Ala Gly Asn Leu Ala Gly Leu Lys	
130 135 140	
ggg cgu cuc gau uac cug agc ucu cug aag gug aag ggc cuu gug cug	480
Gly Arg Leu Xaa Tyr Leu Ser Ser Leu Lys Val Lys Gly Leu Val Leu	
145 150 155 160	
ggg cca auu cac aag aac cag aag gau gau guc gcu cag acu gac uug	528
Gly Pro Ile His Lys Asn Gln Lys Xaa Xaa Val Ala Gln Xaa Asp Leu	
165 170 175	
cug cag auc gac ccc aaU uuU ggc ucc aag gaa gau uuU gac agu cuc	576
Leu Gln Ile Asp Pro Asn Phe Gly Ser Lys Glu Xaa Phe Asp Ser Leu	
180 185 190	
uug caa ucg gcu aaa aaa aag agc auc cgu guc auu cug gac cuu acu	624
Leu Gln Ser Ala Lys Lys Lys Ser Ile Arg Val Ile Leu Asp Leu Xaa	
195 200 205	

ccc aac uac cgg ggu gag aac ucg ugg uuc ucc acu cag guu gac acu	672
Pro Asn Tyr Arg Gly Glu Asn Ser Trp Phe Ser Xaa Gln Val Asp Xaa	
210 215 220	
gug gcc acc aag gug aag gau gcu cug gag uuu ugg cug caa gcu ggc	720
Val Ala Thr Lys Val Lys Xaa Ala Leu Glu Phe Trp Leu Gln Ala Gly	
225 230 235 240	
gug gau ggg uuc cag guu cgg gac aua gag aau cug aag gau gca ucc	768
Val Xaa Gly Phe Gln Val Arg Asp Ile Glu Asn Leu Lys Xaa Ala Ser	
245 250 255	
uca uuc uug gcu gag ugg caa aa uuc acc aag ggc uuc agu gaa gac	816
Ser Phe Leu Ala Glu Trp Gln Asn Ile Thr Lys Gly Phe Ser Glu Asp	
260 265 270	
agg cuc uug auu gcg ggg acu aac ucc ucc gac cuu cag cag auc cug	864
Arg Leu Leu Ile Ala Gly Xaa Asn Ser Ser Asp Leu Gln Gln Ile Leu	
275 280 285	
agc cua cuc gaa ucc aac aaa gac uug cug uug acu agc uca uac cug	912
Ser Leu Leu Glu Ser Asn Lys Asp Leu Leu Leu Xaa Ser Ser Tyr Leu	
290 295 300	
ucu gau ucu ggu ucu acu ggg gag cau aca aaa ucc cua guc aca cag	960
Ser Xaa Ser Gly Ser Xaa Gly Glu His Thr Lys Ser Leu Val Thr Gln	
305 310 315 320	
uau uug aa ucc acu ggc aa cgc ugg ugc agc ugg agu uug ucu cag	1008
Tyr Leu Asn Ala Xaa Gly Asn Arg Trp Cys Ser Trp Ser Leu Ser Gln	
325 330 335	
gca agg cuc cug acu ucc uuc uug ccg gcu caa cuu cuc cga cuc uac	1056
Ala Arg Leu Leu Xaa Ser Phe Leu Pro Ala Gln Leu Leu Arg Leu Tyr	
340 345 350	
cag cug aug cuc uuc acc cug cca ggg acc ccu guu uuc agc uac ggg	1104
Gln Leu Met Leu Phe Thr Leu Pro Gly Thr Pro Val Phe Ser Tyr Gly	
355 360 365	
gau gag auu ggc cug gau gca gcu gcc cuu ccu gga cag ccu aug gag	1152
Xaa Glu Ile Gly Leu Xaa Ala Ala Ala Leu Pro Gly Gln Pro Met Glu	
370 375 380	
gcu cca guc aug cug ugg gau gag ucc agc uuc ccu gac auc cca ggg	1200
Ala Pro Val Met Leu Trp Xaa Glu Ser Ser Phe Pro Asp Ile Pro Gly	
385 390 395 400	
gcu gua agu gcc aac aug acu gug aag ggc cag agu gaa gac ccu ggc	1248
Ala Val Ser Ala Asn Met Xaa Val Lys Gly Gln Ser Glu Asp Pro Gly	
405 410 415	
ucc cuc cuu ucc uug uuc cgg cgg cug agu gac cag cgg agu aag gag	1296
Ser Leu Leu Ser Leu Phe Arg Arg Leu Ser Asp Gln Arg Ser Lys Glu	
420 425 430	

cgc ucc cua cug cau ggg gac uuc cac gcg uuc ucc gcu ggg ccu gga 1344  
 Arg Ser Leu Leu His Gly Asp Phe His Ala Phe Ser Ala Gly Pro Gly  
 435 440 445

cuc uuc ucc uau auc cgc cac ugg gac cag aaU gag cgu uuu cug gua 1392  
 Leu Phe Ser Tyr Ile Arg His Trp Asp Gln Asn Glu Arg Phe Leu Val  
 450 455 460

gug cuu aac uuu ggg gau gug ggc cuc ucg gcu gga cug cag gcc ucc 1440  
 Val Leu Asn Phe Gly Xaa Val Gly Leu Ser Ala Gly Leu Gln Ala Ser  
 465 470 475 480

gac cug ccu gcc agc gcc agc cuc cca gcc aag gcu gac cuc cug cuc 1488  
 Asp Leu Pro Ala Ser Ala Ser Leu Pro Ala Lys Ala Asp Leu Leu Leu  
 485 490 495

agc acc cag cca ggc cgu gag gag ggc ucc ccu cuu gag cug gaa cgc 1536  
 Ser Thr Gln Pro Gly Arg Glu Glu Gly Ser Pro Leu Glu Leu Glu Arg  
 500 505 510

cug aaa cug gag ccu cac gaa ggg cug cug cuc cgc uuc ccc uac gcg 1584  
 Leu Lys Leu Glu Pro His Glu Gly Leu Leu Leu Arg Phe Pro Tyr Ala  
 515 520 525

gcc uga 1590  
 Ala  
 530